

CALISTO: California Spring Tournament 2020

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Packet 10 Tossups

1. In a story by this author, a woman causes a shirtless man to violently recoil when she puts her hand on his shoulder and calls him one of her own children. In another story by this author, a white woman with a “hideous” green and purple hat is punched by a black woman wearing the same hat after she condescendingly offers the black woman’s son a “bright new penny.” Julian’s mother has a stroke after riding an integrated bus in this author’s story (*) “Everything That Rises Must Converge.” In a story by this author, the Grandmother dooms her family to be killed after she recognizes the Misfit. For 10 points, name this Southern Gothic author of “A Good Man is Hard to Find.”

ANSWER: Flannery O’Connor [or Mary Flannery O’Connor]
<Short Fiction — Schwartz> [Edited]

2. A multiplicative term that corrects the magnetic moment of this particle is called the Landé *g*-factor. In one technique, these particles are fired through an ultrathin sample to form an image. Phonon-created lattice distortions cause these particles to form composite bosons called Cooper pairs. One of these particles will be ejected from a material if the energy of an incident photon is greater than the (*) work function. Tauons and muons are more massive counterparts of these charged leptons. These particles are ejected from metals in the photoelectric effect. For 10 points, name these negatively charged subatomic particles which make up atoms with protons and neutrons.

ANSWER: electron [accept electron magnetic moment or electron magnetic dipole moment or electron microscopy or electron microscope or transmission electron microscopy or transmission electron microscope or scanning transmission electron microscopy or scanning transmission electron microscope or high-resolution transmission electron microscopy or high-resolution transmission electron microscope; prompt on leptons or fermions; prompt on TEM imaging or STEM imaging or HRTEM imaging or HREM imaging or the photoelectric effect with "what particle is involved in that process?"]
<Physics — Gurazada> [Edited]

3. The Kennedy family commissioned this artist’s *son* to create a posthumous 1967 portrait of John F. Kennedy. A single nude woman faces away from the open window in a dark room in a painting by this artist titled *Lovers*. This artist’s work at the Kuerner house resulted in a series featuring the braided blonde hair of this artist’s neighbor, (*) Helga Testorf. Much of this artist’s oeuvre depicts either Chadds Ford, Pennsylvania, or Cushing, Maine. This artist included the Olson family home in a painting of a paralyzed girl in a pink dress lying in the grass. For 10 points, name this artist of *Christina’s World*.

ANSWER: Andrew Wyeth [do NOT accept or prompt on “Jamie Wyeth” or “N. C. Wyeth”]
<Painting — Ma> [Edited]

4. In ancient Rome, children wore phallus-shaped amulets called *fascinum* to protect against a curse named for one of these objects. In his quest to kill Medusa, Perseus steals one of these objects from the sisters Deino, Enyo, and Pemphredo, who are collectively known as the Graeae. In a common epithet, these features of (*) Hera are compared to those of a cow. After Tiresias informs him that he did in fact marry his mother, Oedipus stabs these body parts with pins. Hera transfers one hundred of these body parts from Argus to the feathers of peacocks. For 10 points, cyclops are characterized by having just one of what body parts?

ANSWER: eyes [accept the evil eye or cow-eyed or ox-eyed; prompt on body part before “parts”]
<Mythology — Venkateswaran> [Ed. French]

5. One religious leader in this city fled to Cairo after the appointment of Husam al-Din Jarallah; that leader was Grand Mufti Hajj Amin al-Husseini. Ralphe Bunche was appointed as a mediator after the assassination of Folke Bernadotte in this city by the “Stern Gang.” The Irgun, without the approval of the Haganah paramilitary, bombed this city’s (*) King David Hotel. The partition of a British Mandate in Resolution 181 made this city an international zone after a conflict which included a defense of its Western Wall. For 10 points, name this holy city that, in 1947, was declared capital of Israel.

ANSWER: Jerusalem [or Yerushalayim or Al-Ouds or Bayt al-Maqdis]
<Asian History — Iyer> [Edited]

6. This author wrote “I barter curl for curl upon that mart” in a poem that begins “The soul’s Rialto hath its merchandize.” Another poem by this author describes an action as “freely, as men strive for right” and “purely, as men turn from praise.” This author contemplated the “sweet years” of which (*) “Theocritus had sung” in a collection that commands the reader to “call me by my pet name.” Another poem in that collection asks, “How do I love thee? Let me count the ways.” For 10 points, name this poet of *Sonnets From the Portuguese*, which was dedicated to her husband Robert.

ANSWER: Elizabeth Barrett Browning [or Elizabeth Barrett or Elizabeth Browning; prompt on Browning; do NOT accept or prompt on “Robert Browning”]
<Poetry — Schwartz> [Ed. French]

7. In Shintoism, this substance is used along with salt in the practice of Harae. This substance is thought to destroy one’s sins during the Kumbh Mela pilgrimage. During the Hajj, pilgrims commemorate Hagar’s search for this substance by travelling between Safa and Marwa seven times. Moses was punished when he created this substance by (*) striking a rock with his staff twice rather than once. This substance is the most common substance used for ablution. Peter thought Jesus was a ghost after seeing him walk on this substance. For 10 points, name this substance which Jesus turned into wine.

ANSWER: water [accept Ganges river water or river water or holy water]
<Religion — Li> [Ed. Dai]

8. A close advisor to this man’s son pointed to a deer and called it a horse. Feudalism was abolished and replaced by thirty-six commanderies by this ruler’s chancellor Lǐ Sì (lee sih). This ruler issued the *Bàn Liǎng* (bun lee-ung) to standardize all forms of currency. This ruler standardized weights and measurements throughout his country but was accused by historian Sīmǎ Qiān (sih-mah chien) of (*) burning books and executing scholars as part of his Legalist doctrine. This ruler conquered the six other Warring States and is buried in a mausoleum supposedly containing rivers of mercury. The Terracotta Army protects the tomb of, for 10 points, what first emperor of China?

ANSWER: Qín Shǐ Huáng [or Shǐ Huáng Dì or First Emperor of Qín; prompt on First Emperor; accept Yíng Zhèng]

<Ancient/Classical History — Ma> [Ed. Athreya]

9. **The presence of a glycosylated form of this molecule denoted "A1c" can be used to diagnose diabetes. This molecule's four subunits can each assume a tense T or relaxed R conformation. Changes in environmental concentration of carbon dioxide or hydrogen ions affect this molecule's binding curve. A substitution of glutamine for valine in this protein can cause it to (*) aggregate into long strands. This protein's binding curve is the subject of the Bohr effect. Carbon monoxide binds to this protein far more readily than this protein's intended substrate. Sickle cell anemia occurs due to a mutation in this protein. For 10 points, name this iron-containing protein that transports oxygen in red blood cells.**

ANSWER: **hemoglobin** [or **Hb**; accept **hemoglobin A1c** or **HbA1c**; do NOT accept or prompt on "myoglobin"]
<Biology — Gurazada> [Edited]

10. **"Abram-men" claimed to be former inhabitants of one of these places. At the end of Hogarth's *A Rake's Progress*, the title character ends up in that one of these locations. A book about "Ten Days" in one of these locations on Blackwell's Island was written by investigative journalist (*) Nellie Bly. The oldest one of these places is in London and is often called "Bedlam." ("bed"-lum) A heavy control panel is in a "tub room" in one of these places in a novel whose protagonist is the troublemaking Randall McMurphy. For 10 points, *One Flew Over the Cuckoo's Nest* is set in what kind of place, where the so-called mentally ill are held?**

ANSWER: **asylums** [accept equivalents such as mental **asylums** or insane **asylums** or lunatic **asylums** or **mental institutions** or **mental hospitals** or **psychiatric hospitals** or **madhouses**; prompt on **asylum** or **hospital**]
<Mixed/Other Academic — Li> [Ed. Gray]

11. **In one role, this actor remarked that the cuckoo clock was the only result of "five hundred years of democracy and peace" in Switzerland. This actor played Harry Lime in the Carol Reed film *The Third Man*. This actor directed a film that opens on a "no trespassing" sign before cutting away to the massive (*) Xanadu estate. That film by this director, which was based on the life of William Randolph Hearst, portrays a newspaper mogul whose last words refer to his childhood sled, "Rosebud." For 10 points, name this director and star of the 1941 film *Citizen Kane*.**

ANSWER: Orson **Welles** [or George Orson **Welles**]
<Film — Schwartz> [Edited]

12. **Frances Willard was the second president of an organization which fought for this policy. A riot in Portland, Maine resulted from the "Maine Law" enacting this policy that was advanced by James Appleton and Neal Dow. A nickname for Lucy Hayes reflects her support for this cause. One member of a (*) Woman's Christian Union for this policy was the hatchet-wielding Carrie A. Nation. The Volstead Act enacted this policy nationwide, which was enabled by the Eighteenth Amendment and repealed by the Twenty-First Amendment. For 10 points, name this policy in which the production and sale of alcohol was banned.**

ANSWER: **prohibition** [or **temperance**; accept the **Eighteenth Amendment** before "Eighteenth"; accept descriptive answers such as **banning alcohol** before "alcohol"]
<US History — Gray> [Edited]

13. **A character created by this author explains the Second Law of Thermodynamics by comparing the increasing chaos of the universe to rice pudding. That character, who asks Septimus about the meaning of the phrase "carnal embrace," is the prodigy Thomasina Coverly. In a play by this author, the leader of a troupe of (*) "players" briefly pretends to die after being stabbed with a retractable knife. That play begins with two characters flipping a coin that lands on heads 92 times in a row. For 10 points, name this author of *Arcadia* who wrote about the existential crises of two minor *Hamlet* characters in *Rosencrantz and Guildenstern are Dead*.**

ANSWER: Tom **Stoppard** [accept Tomáš **Straussler**]
<Drama — Schwartz> [Edited]

14. The AMPS (A-M-P-S) hypothesis attempts to resolve these objects' information paradox by suggesting that they are surrounded by a firewall of high energy particles. If one of these objects is described by the Kerr metric, then energy can be extracted from its ergosphere via the Penrose process. Pair production near the boundary of these objects leads to their evaporation in the form of (*) Hawking radiation. In the simplest case, the Schwarzschild radius is the distance from one of these objects' singularity to its event horizon. For 10 points, name these super-dense astronomical objects from which light cannot escape.

ANSWER: **black holes**

<Astronomy — Gurazada> [Ed. French]

15. This thinker determined that Sergei Pankejeff's vision of six white wolves on a tree was caused by an "infantile neurosis." Activities like breastfeeding and strict potty training could lead to "fixations" later in life in this thinker's five-stage model of development. This thinker proposed the (*) "manifest content" is a censored version of the much more sexual and violent "latent content" in his work *The Interpretation of Dreams*. This thinker proposed that the primal, animalistic desires of the id are regulated by the superego. For 10 points, name this pseudoscientific Austrian psychologist who founded the field of psychoanalysis.

ANSWER: Sigmund **Freud** [or Sigismund Schlomo **Freud**]

<Psychology — Athreya> [Ed. Schwartz]

16. A character in this novel takes comfort in his grandmother's collection of four skirts, which his grandfather Joseph briefly uses to hide from the police. That character from this novel is called "Jesus" by a gang of street children, "The Dusters." After finding a detached finger in a field, this novel's protagonist is confined to a mental asylum for the murder of Sister Dorothea. This novel is followed by (*) *Cat and Mouse* and *Dog Years* in its author's *Danzig Trilogy*. The main character of this novel has a scream that can shatter glass and decides to stop growing at the age of three. For 10 points, Oskar Matzerath lives through World War II in what novel by Günter Grass?

ANSWER: *The **Tin Drum*** [or *Die **Blechtrummel***]

<Long Fiction — Schwartz> [Edited]

17. A compound with one atom of this element is used in an anti-Markovnikov process that converts alkenes to alcohols. Hydrides of this element can be classified as "closo-," "nido-," or "arachno-" according to Wade's rules. Pyrex glass contains this element's trioxide, making it very heat-resistant. This element's trifluoride is an excellent Lewis acid due to it having an empty atomic orbital. This element violates the (*) octet rule because it only requires six valence electrons to form a bond. This element is the lightest metalloid, and it is the lightest element whose ground state has electrons in a *p* orbital. For 10 points, name this element with atomic number five.

ANSWER: **boron** [or **B**]

<Chemistry — Bandara> [Ed. Gurazada]

18. After hearing Frederic Chopin's variations on a duet from this opera, Robert Schumann declared, "hats off, gentlemen, a genius!" The character in this opera who sings "Notte e giorno faticar" cowers in fear because of another character who declares "a cenar teco, m'invitasti e son venuto." An aria from this opera addressed to (*) "Madamina" lists off "640 in Italy and 231 in Germany" to Donna Elvira. That aria is sung by the servant Leporello and is known as the Catalogue Aria. The title character of this opera is dragged to hell by a statue of the Commendatore. For 10 points, name this Mozart opera about the demise of the title womanizer.

ANSWER: ***Don Giovanni*** [or *Il dissoluto punito, ossia il **Don Giovanni*** or *The Rake Punished, namely **Don Giovanni***]

<Opera — Ma> [Edited]

19. **This ruler sent eight hundred young women known as the “king’s daughters” to a colony to bolster its population. Seven fiscal edicts sparked the first popular uprising against this ruler, which is called the Fronde (frond). A scandal at this ruler’s court called the Affair of the Poisons implicated aristocrats like his mistress Madame de Montespan (mon-te-SPAWN). This ruler’s marriage to Maria Theresa of Spain was arranged by his advisor, (*) Cardinal Mazarin (MAH-za-RAHN). This king issued the Edict of Fontainebleau (fon-ten-bloh), revoking many rights given to the Huguenots (Hugh-ge-naughts) by the Edict of Nantes. For 10 points, name this French king who built the palace of Versailles, nicknamed the “Sun King.”**

ANSWER: **Louis XIV** [or **Louis the Great** or **Louis Le Grand**; prompt on Louis; prompt on Sun King or Roi Soleil before “Sun”]

<European History — Li> [Ed. Athreya]

20. **The deepest point on this river, Algiers Point, is the namesake of a neighborhood around this river in one city. A National Scenic Byway, the Great River Road, accompanies the full length of this river. Systems for controlling this river include the Old River Control Structure, which helps fight against this river’s tendency to redirect into a neighbor, the (*) Atchafalaya. This river’s water is diverted by a spillway into Lake Pontchartrain. The 1811 New Madrid earthquake briefly made this river flow backwards. For 10 points, name this river whose headwaters are at Lake Itasca and which flows past New Orleans on its way to the Gulf of Mexico.**

ANSWER: **Mississippi** River

<Geography — Gray> [Edited]

Packet 10 Bonuses

1. Bernie Sanders's plan with this name aims to reduce carbon emissions from electricity production and transportation to zero by 2030 while eliminating unemployment completely. For 10 points each:

[10] Give this name of many hazily-defined environmental plans. Alexandria Ocasio-Cortez and Ed Markey sponsored respective House and Senate resolutions requiring the implementation of a plan of this name.

ANSWER: **Green New Deal**

[10] This predominantly youthful environmental movement backs the Green New Deal. A November 2018 sit-in in Nancy Pelosi's office led by this group helped bring it to prominence.

ANSWER: **Sunrise Movement**

[10] This climate activist who became famous for skipping school to protest outside the Swedish parliament sailed across the Atlantic in August 2019 to attend the UN Climate Action Summit.

ANSWER: Greta **Thunberg**

<Current Events — Gray> [Edited]

2. This tribe was required to leave one territory after the Treaty of Moultrie ("mole-tree") Creek. For 10 points each:

[10] Name this tribe that fought three namesake wars against the United States under the leadership of

Osceola (aw-see-OH-luh).

ANSWER: **Seminoles**

[10] This 1819 treaty between the United States and Spain established US ownership over the Florida territory.

ANSWER: **Adams-Onís** Treaty [or **Onís-Adams** Treaty]

[10] This president forcibly removed the Seminoles from their territory, along with the other four "Civilized Tribes." This president signed the Indian Removal Act shortly after his election in 1832, leading to the Trail of Tears.

ANSWER: Andrew **Jackson**

<US History — Iyer> [Edited]

3. These circuit components can be constructed by placing two oppositely-charged plates adjacent to each other. For 10 points each:

[10] Name these circuit components, which store charge for short periods of time. The amount of charge these components can store is often measured in nanofarads.

ANSWER: **capacitors** [or **capacitance**; prompt on C]

[10] Placing this type of material between the plates of a capacitor increases its capacitance. Materials of this type are electrical insulators but can be polarized by an applied electric field.

ANSWER: **dielectric** material [accept linear **dielectric** or linear **dielectric** material]

[10] A capacitor in parallel and a resistor in series with a load form the "low-pass" variety of these circuit components. These circuit components also come in "high-pass" and "band-pass" varieties.

ANSWER: electronic **filters** [or passive **filters** or low-pass **filters** or high-pass **filters** or band-pass **filters**]

<Physics — Gurazada> [Edited]

4. Jean Rhys (*reese*) adapted this character as a Jamaican woman named Antoinette Cosway in her novel *Wide Sargasso Sea*. For 10 points each:

[10] Name this character, who inspired the title of Gilbert and Gubar's *The Madwoman in the Attic*. This woman burns down Thornfield Hall after her husband locks her inside.

ANSWER: Bertha **Mason** [or **Bertha**]

[10] This character, the husband of Bertha Mason, pays the servant Grace Poole to take care of Bertha, which he publicly reveals on the day of his wedding with another character.

ANSWER: Edward **Rochester** [or **Edward**]

[10] This governess saves Rochester from the fire caused by Bertha Mason and later marries him. She titles a novel by Charlotte Brontë.

ANSWER: Jane **Eyre** [or **Jane**]

<Long Fiction — Schwartz> [Ed. Venkateswaran]

5. The function of these organs is often measured by the glomerular filtration rate. For 10 points each:

[10] Name these bean-shaped organs that receive blood from the renal arteries. These organs filter and detoxify blood, and they excrete the waste products as urine.

ANSWER: **kidneys**

[10] The kidney conserves this element in response to aldosterone. Three ions of this element are exchanged for two ions of potassium by a namesake "pump."

ANSWER: **sodium** [or **Na**; accept **sodium** ion or **sodium** cation or **sodium** plus or **Na**⁺ or **sodium**-potassium pump or **Na**⁺/K⁺ pump or **sodium**-potassium ATPase or **Na**⁺/K⁺ ATPase or **sodium**-potassium adenosine triphosphatase or **Na**⁺/K⁺ adenosine triphosphatase]

[10] Fibroblasts in the kidneys secrete this hormone in response to hypoxia. This hormone stimulates the formation of red blood cells in the bone marrow, and it has historically been used by cyclists as a doping agent.

ANSWER: **erythropoietin** [or **EPO** or **hematopoietin** or **hemopoietin**]

<Biology — Schwartz> [Ed. Gurazada]

6. For 10 points each, answer the following about jazz musician Chet Baker:

[10] Chet Baker collaborated with this musician on a rendition of "Autumn Leaves" for his album *She Was Too Good to Me*. This musician played saxophone for the Dave Brubeck Quartet.

ANSWER: Paul **Desmond**

[10] Baker's work is usually categorized as this style of jazz. Miles Davis pioneered this style in his album *The Birth of this style*.

ANSWER: **cool** jazz [accept *The Birth of the Cool*]

[10] Baker's cocaine addiction cost him his embouchure (OM-buh-shur) after a fight knocked out his front teeth, forcing him to relearn how to play this instrument. Miles Davis also played this instrument.

ANSWER: **trumpet**

<Jazz — Ma> [Ed. French]

7. This leader formed an undercover death squad known as the Tonton Macoute. For 10 points each:

[10] Name this former physician who became the president of Haiti in 1959. This leader ordered all black dogs to be killed, believing a political opponent had transformed into one.

ANSWER: **Francois Duvalier** [or **Papa Doc**; prompt on **Duvalier** or **Doc**]

[10] Duvalier became president after a series of coups that started with this country's 19-year occupation of Haiti. Duvalier claimed that the assassination of this country's president John F. Kennedy was due to a curse he placed on him.

ANSWER: **United States** of America [or **America** or **USA** or **U. S.**]

[10] Duvalier believed himself to be one of these spirits of Voodoo. These spirits were often syncretized with Catholic saints.

ANSWER: **loas**

<Latin American History — Athreya> [Edited]

8. J.R.R. Tolkien argued that, while this character is “primarily an ogre,” he is also “an image of man estranged from god.” For 10 points each:

[10] Name this monster. This “descendant of Cain” has his arm ripped off while raiding the mead hall of King Hrothgar.

ANSWER: **Grendel**

[10] Grendel has his arm ripped off by this warrior who defeats Grendel, Grendel's mother, and a dragon in the Old English epic named for him.

ANSWER: **Beowulf**

[10] Grendel is called a “shepherd of evil” in an example of one of these expressions, which are common in Old English poetry. These compound metaphors combine two unlike nouns to refer to a third noun, such as “battle-sweat” for “blood.”

ANSWER: **kennings**

<Poetry — Iyer/Schwartz> [Ed. French]

9. The Wilton Diptych, painted for Richard II, is one of the few surviving English examples of art from the “international” portion of this period. For 10 points:

[10] Name this period of medieval art that followed the Romanesque period. Architecture from this period often featured high rib vaults and ornate rose windows.

ANSWER: **Gothic** Art [accept International **Gothic**]

[10] This medium gained greater prestige during the Gothic period. The Chartres Cathedral features the stained variety of this medium in its rose windows.

ANSWER: **glass** [accept stained **glass**]

[10] This church in a suburb of Paris is generally considered to contain the earliest instance of Gothic architecture as it uses both flying buttresses and large stained-glass windows. This church is sometimes referred to as the “Royal Necropolis” due to its usage as a burial site for Valois and Bourbon Kings of France.

ANSWER: Basilica of **Saint-Denis** (san duh-NEE) [or *Basilique Royale* **Saint-Denis**]

<Other Visual Art — Ma> [Edited]

10. According to legend, in this person's childhood, he gently caressed a snake that disrupted him and his friends while they were playing, causing it to calmly slither away. For 10 points each:

[10] Name this person, who, after his royal parents died, decided to renounce his life and become an ascetic. After wandering around naked for twelve years and deeply meditating for another twelve, he became a Jina.

ANSWER: **Mahavira** [or **Mahavir** or **Vardhamana**]

[10] Mahavira practiced this religion, which is divided into the Svetambara and Digambara sects. In this religion, *tirthankaras* teach disciples how to conquer the cycle of *samsara* and attain *moksha*.

ANSWER: **Jainism** [or **Jain** Dharma]

[10] In his preaching, Mahavira emphasized the importance of this virtue of non-violence. In order to follow this virtue, many Jains are vegetarian, and some sweep the ground ahead of them while walking so that they do not harm insects.

ANSWER: **ahimsa**

<Religion — Venkateswaran> [Edited]

11. This component's registers provide operands to its arithmetic logic unit, or ALU. For 10 points each:

[10] Name this computer part that executes instructions. Models of them include the Intel Core i5 and i7.

ANSWER: **CPU** [or **central processing unit**; prompt on **processor**]

[10] While the ALU operates on integers, a different CPU subunit operates on these representations of real numbers. These numbers are represented with a sign, a significand or mantissa, and an exponent.

ANSWER: **floating-point** numbers [accept **float** or **double** or single-precision **floating-point** format or double precision **floating-point** format or **floating-point** unit or **floating-point** arithmetic]

[10] A CPU is an implementation of one of these things, an abstract model that sets out supported data types, registers, memory management, I/O, and the machine code to control them. Examples of these things include ARM and x86.

ANSWER: instruction set **architecture** [or **instruction set** or **ISA** or computer **architecture**; accept **CISC** or **RISC** or complex **instruction set** computer or reduced **instruction set** computer]

<Computer Science — Gray> [Ed. Gurazada]

12. Malachi Constant meets one of these creatures named Salo in *The Sirens of Titan*. For 10 points each:

[10] Name these creatures, who resemble plungers with a hand attached on top. They respond to death with the expression "So it Goes."

ANSWER: **Tralfamadorians**

[10] In a novel, Tralfamadorians place this character in a zoo with the adult film actress Montana Wildhack. This character becomes "unstuck in time" in the novel *Slaughterhouse Five*.

ANSWER: Billy **Pilgrim** [or **Billy**]

[10] This author wrote about Billy Pilgrim and the Tralfamadorians in *Slaughterhouse Five*. This author's alter ego Kilgore Trout appears in his novels *Breakfast of Champions* and *God Bless You, Mr. Rosewater*.

ANSWER: Kurt **Vonnegut**

<Long Fiction — Schwartz> [Edited]

13. In a piece by this composer, a triplet-filled violin cadenza represents the title character, while her husband is represented by the domineering “sultan” theme. For 10 points each:

[10] Name this composer of *Scheherazade*.

ANSWER: Nikolai **Rimsky-Korsakov** [do NOT accept or prompt on “Rimsky” or “Korsakov”]

[10] Rimsky-Korsakov was a composer from this country. He was a part of the “Mighty Handful,” a group led by Mily Balakirev that sought to promote this country’s national music.

ANSWER: **Russia** [or **Russian** Empire]

[10] This composer was inspired by Rimsky-Korsakov to write his *Scheherazade.2* (point two), a symphony for violin and orchestra. This composer’s other works include *City Noir* and *The Death of Klinghoffer*.

ANSWER: John Coolidge **Adams**

<Classical Music — Ma> [Edited]

14. A character in this movie cites Jeremiah 11:11 in flashback, and is later seen by the central family both being lifted into an ambulance and standing on a Santa Cruz beach with a bloody hand. For 10 points each:

[10] Name this film in which underground tunnels full of rabbits are home to the Tethered, doppelgangers of every American. In this movie, the Tethered arise to the surface, kill their counterparts, and unite hands across America.

ANSWER: **Us**

[10] *Us* was the second movie by this director. This director’s debut was a 2017 movie in which Dean Armitage tries to surgically implant a mind into Chris Washington’s body, *Get Out*.

ANSWER: Jordan Haworth **Peele**

[10] Jordan Peele was previously best known for a show with this comedian. The duo were in sketches about Obama’s “anger translator” and one in which this comedian, playing a substitute teacher, mispronounces “Aaron.”

ANSWER: Keegan-Michael **Key**

<Pop Culture — Gray> [Edited]

15. For 10 points each, answer the following about the Xiōngnú (shyung-noo):

[10] Historian Étienne de la Vaissière argued that the Xiōngnú were the origin of these people. These nomadic people were defeated at the Battle of Châlons by a Roman-Visigoth alliance.

ANSWER: **Huns**

[10] The theory that the Huns originated from the Xiōngnú was popularized by this other historian. This historian also wrote *The History of the Decline and Fall of the Roman Empire*.

ANSWER: Edward **Gibbon**

[10] This structure was built to keep the Xiōngnú from invading China. Contrary to popular belief, this structure cannot be seen from space.

ANSWER: **Great Wall** of China [or *Wànlǐ Chángchéng*]

<Ancient/Classical History — Hong> [Edited]

16. These compounds can be created through dative covalent bonding or chelation. For 10 points each:

[10] Name this class of compounds which consist of one or more ligands using a free electron pair to form a bond with a central atom.

ANSWER: **coordination complexes** [accept **coordination compounds**; prompt on **complexes** alone]

[10] The central atom in almost all coordination complexes is a member of this class of elements, which include iron and copper and have unfilled *d* orbitals.

ANSWER: **transition metals** [prompt on **metals**]

[10] When an element’s coordination number is four, it can either form a square planar complex or a complex with this geometry. Molecules where the central atom is sp^3 (“S-P-3”) hybridized have this molecular geometry.

ANSWER: **tetrahedral**

<Chemistry — Iyer> [Ed. Gurazada]

17. This conflict began after the death of the sickly king Charles II. For 10 points each:

[10] Name this conflict in which the Habsburg and Bourbon dynasties fought for the throne of a namesake country.

ANSWER: War of the **Spanish Succession** [do NOT accept or prompt on “Queen Anne’s War”]

[10] Along with the Duke of Marlborough, this president of the Imperial Council led the Grand Alliance against France during the War of the Spanish Succession.

ANSWER: Prince **Eugene** Francis of **Savoy**-Carignano [accept **Eugène François** or **Eugen Franz** or **Eugenio Francesco**]

[10] The Duke of Marlborough and Eugene of Savoy led troops at the battle of Blenheim, where they were able to save this city on the Danube from French forces. This Hapsburg stronghold would later serve as the capital of the Austrian Empire.

ANSWER: **Vienna** [or **Wien**]

<European History — Athreya> [Edited]

18. In this play, Dapper is convinced to throw away all of his valuable possessions before meeting a prostitute disguised as the “Queen of Fairy.” For 10 points each:

[10] Name this play. In this play, Face and Subtle con Londoners like Abel Drugger and Sir Epicure Mammon after Lovewit flees his house to escape the plague.

ANSWER: *The **Alchemist***

[10] *The Alchemist* is a play by this author. This English Renaissance playwright described the title Venetian nobleman’s attempts to scam Corvino, Corbaccio, and Voltore in *Volpone*.

ANSWER: Ben **Jonson** [or Benjamin **Jonson**]

[10] Ben Jonson mocked the education of this other English Renaissance playwright by saying he had “small Latin and less Greek.” This playwright was born in Stratford-upon-Avon, and, despite conspiracy theories, he was not Christopher Marlowe.

ANSWER: William **Shakespeare**

<Drama — Schwartz> [Ed. French]

19. In the *Encomium*, Gorgias argued that Helen could not have been responsible for the Trojan War since she was a victim of either abduction, love, or this discipline. For 10 points each:

[10] Name this discipline. Common formulas used by practitioners of this discipline are called *topoi*.

ANSWER: **rhetoric** [accept **logos**; prompt on synonyms such as **oratory**, **oration**, **speech-giving**, public **speaking**, or **persuasion**]

[10] Gorgias argues with this character about whether rhetoric is a true or false art in one of the dialogues named after this philosopher, who was Plato’s teacher. A questioning style of argumentation is this philosopher’s “method.”

ANSWER: **Socrates**

[10] Classical rhetoric defines three modes of persuasion. In this mode, the speaker emphasizes their own credibility.

ANSWER: **ethos** (The other modes are *logos* (appeal to logic) and *pathos* (appeal to emotions).)

<Philosophy — French> [Edited]

20. You are a contestant on a game show in which there are three doors marked A, B, and C. One has a car behind it, while the other two have goats. For 10 points each:

[10] After you select door A, the host—Monty Hall—opens door C to reveal a goat. What is the probability that the car is behind door B, the one you didn't pick?

ANSWER: **two-thirds** [or **two out of three** or **0.6 repeating**; accept **67 percent** or **0.67** or **.67**]

[10] The unintuitive solution to the Monty Hall problem can be derived from this theorem, because it concerns the probability that door B contains a car *given* that door C contains a goat. This theorem calculates the conditional probability of an event given relevant information.

ANSWER: **Bayes'** theorem

[10] Bayes' theorem is just the trivial identity "one equals one" when applied to two events with this property. Two events with this property have no bearing on each others' outcomes.

ANSWER: **independence** [or statistical **independence** or stochastic **independence**; accept word forms like statistically **independent**]

<Math — Dai> [Ed. French]